

	Type	L #	Hits	Search Text	DBs
1	BRS	L2	207100	(identif\$9 or recog\$9 or detect\$3) with (road or lane or line)	USPAT
2	BRS	L3	35851	2 and (waveform or histogram)	USPAT
3	BRS	L4	2395	2 and ((waveform or histogram) same rotat\$8)	USPAT
4	BRS	L5	271	2 same ((waveform or histogram) same rotat\$8)	USPAT
5	BRS	L6	245	2 same ((waveform or histogram) same rotat\$8)	USPAT
6	BRS	L7	173202	(identif\$9 or recog\$9 or detect\$3) with (road or lane or line)	USPAT
7	BRS	L8	197626	(track\$3 or identif\$9 or recog\$9 or detect\$3) with (road or lane or line)	USPAT
8	BRS	L9	479	8 same histogram	USPAT
9	BRS	L10	30	8 same (histogram same (rotat\$3 or hough))	USPAT
10	BRS	L11	7554	(track\$3 or identif\$9 or recog\$9 or detect\$3) with (road or lane or line)	EPO
11	BRS	L12	0	11 same (histogram same (rotat\$3 or hough))	EPO
12	BRS	L13	9	11 same histogram	EPO
13	BRS	L14	65659	(track\$3 or identif\$9 or recog\$9 or detect\$3) with (road or lane or line)	DERWENT
14	BRS	L15	74	14 same histogram	DERWENT
15	BRS	L16	79632	(track\$3 or identif\$9 or recog\$9 or detect\$3) with (road or lane or line)	JPO
16	BRS	L17	0	16 same histogram	DERWENT
17	BRS	L18	0	16 and histogram	DERWENT
18	BRS	L19	192	16 and histogram	JPO
19	BRS	L20	6	16 same (histogram same (rotat\$3 or hough))	JPO

	Type	L #	Hits	Search Text	DBs
1	BRS	L1	16442	(track\$3 or recog\$8 or identif\$6) same (road or lane)	USPAT
2	BRS	L2	28	1 same histogram	USPAT
3	BRS	L3	2	1 same histogram same (rotat\$3 or hough)	USPAT
4	BRS	L4	16	1 and (histogram same (rotat\$3 or hough))	USPAT
5	BRS	L5	12	1 and (histogram same hough)	USPAT


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1 A parallel systolic array ASIC for real-time execution of the Hough transform

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Set	Items	Description
S1	43692	(ROADWAY OR ROAD()WAY? OR STREET?? OR HIGHWAY??) (5N) (VIDEO OR IMAGE?? OR PICTURE? OR CCD OR CAMERA???)
S2	107	S1(3N) FRAME??
S3	4341	(MULTIPLE OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR PLURA- L?) (3N) (PIXEL?? OR PEL OR PICTURE()ELEMENT?)
S4	15744	HISTOGRAM?
S5	3	PROJECTION(3N) (WAVEFORM? OR WAVE() FORM??)
S6	15255519	LINE??
S7	23032	S6(5N) (BROKEN OR PERIODIC OR SPACED OR SPACING)
S8	7	LUMINANCE(S) HUE(S) SATURATION(S) DIRECTION(S) (VELOCITY OR SP- EED)
S9	11128	ROTAT?(3N) (AXIS OR XY OR X()Y OR ORTHOGON? OR ORIENTATION? OR AXES)
S10	243	HOUGH() TRANSFORM?
S11	352256	HORIZONTAL?
S12	868917	VERTICAL?
S13	281985	(INDICAT? OR REPRESENT? OR CHARACTERISTIC? OR IDENTIF? OR - CORRESPOND? OR RELAT? OR MATCH?) (3N) S6
S14	188	PARALLEL(5N) DOUBLE(5N) (S6 OR LANE??)
S15	203415	(IDENTIF? OR DETERMIN? OR DETECT? OR TRACK? OR LOCAT?) (3N)- (VEHICLE?? OR CARS OR CAR OR AUTOMOBILE?? OR TRUCK?? OR HEADL- IGHT? OR HEAD()LIGHT?? OR (TAIL OR REAR) ()LIGHT?? OR TAILLIGH- T???)
S16	13	AU=(PIRIM, P? OR BINFORD, T? OR PIRIM P? OR BINFORD T?)
S17	0	(TIME OR DURATION) (3N) S2
S18	0	S2(S) S3
S19	0	S1(S) (S4 OR S5 OR S10)
S20	29	S3(S) (S4 OR S5 OR S10)
S21	3	S20(S) S6
S22	2	RD S21 (unique items)
S23	0	S20(S) S15
S24	4	S3(S) (S13 OR S14 OR S15)
S25	4	S24 NOT S21
S26	4	RD S25 (unique items)
S27	0	S3(S) S9
S28	4	S16 AND (S6 OR S15)
S29	2	RD S28 (unique items)

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Set	Items	Description
S1	510	(ROADWAY OR ROAD()WAY? OR STREET?? OR HIGHWAY??) (5N) (VIDEO OR IMAGE?? OR PICTURE? OR CCD OR CAMERA??)
S2	8	S1(3N) FRAME??
S3	14495	(MULTIPLE OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR PLURAL?) (3N) (PIXEL?? OR PEL OR PICTURE() ELEMENT?)
S4	12905	HISTOGRAM?
S5	38	PROJECTION(3N) (WAVEFORM? OR WAVE() FORM??)
S6	990065	LINE??
S7	63235	S6(5N) (BROKEN OR PERIODIC OR SPACED OR SPACING)
S8	7	LUMINANCE(S) HUE(S) SATURATION(S) DIRECTION(S) (VELOCITY OR SPEED)
S9	115617	ROTAT?(3N) (AXIS OR XY OR X()Y OR ORTHOGON? OR ORIENTATION? OR AXES)
S10	385	HOUGH() TRANSFORM?
S11	354642	HORIZONTAL?
S12	402727	VERTICAL?
S13	204324	(INDICAT? OR REPRESENT? OR CHARACTERISTIC? OR IDENTIF? OR - CORRESPOND? OR RELAT? OR MATCH?) (3N) S6
S14	277	PARALLEL(5N) DOUBLE(5N) (S6 OR LANE??)
S15	30993	(IDENTIF? OR DETERMIN? OR DETECT? OR TRACK? OR LOCAT?) (3N) - (VEHICLE?? OR CARS OR CAR OR AUTOMOBILE?? OR TRUCK?? OR HEADLIGHT? OR HEAD()LIGHT?? OR (TAIL OR REAR) ()LIGHT?? OR TAILLIGHTT???)
S16	27	AU=(PIRIM, P? OR BINFORD, T? OR PIRIM P? OR BINFORD T?)
S17	0	(TIME OR DURATION) (3N) S2
S18	25319	IC=G06K?
S19	0	S16 AND S1
S20	6	S16 AND S3
S21	1	S20 NOT PY=>2000
S22	8	S15 AND S16
S23	7	S22 NOT S21
S24	0	S2(S) S3
S25	1	S2 AND S18
S26	1	S25 NOT (S22 OR S21)
S27	3	S8 AND S18
S28	1	S27 NOT (S25 OR S22 OR S21)
S29	0	S28 NOT FACE
S30	3	S1(S) S3
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S39	1	S38(S) S9
S40	0	S39 NOT (S33 OR S30 OR S25 OR S22 OR S21)
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S43	27	S42 AND S18
S44	14	S43 NOT PY=>2000
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S1	1285	(ROADWAY OR ROAD()WAY? OR STREET?? OR HIGHWAY??) AND (VIDEO OR IMAGE?? OR PICTURE? OR CCD OR CAMERA??)
S2	64	S1 AND FRAME??
S3	12764	(MULTIPLE OR MANY OR MULTI OR SEVERAL OR NUMEROUS OR PLURAL?) (3N) (PIXEL?? OR PEL OR PICTURE()ELEMENT?)
S4	7039	HISTOGRAM?
S5	87	PROJECTION(3N) (WAVEFORM? OR WAVE() FORM??)
S6	1801261	LINE??
S7	73928	S6 AND (BROKEN OR PERIODIC OR SPACED OR SPACING)
S8	1	LUMINANCE AND HUE AND SATURATION AND DIRECTION AND (VELOCITY OR SPEED)
S9	331289	ROTAT? AND (AXIS OR XY OR X()Y OR ORTHOGON? OR ORIENTATION? OR AXES)
S10	286	HOUGH()TRANSFORM?
S11	638222	HORIZONTAL?
S12	956631	VERTICAL?
S13	80698	(INDICAT? OR REPRESENT? OR CHARACTERISTIC? OR IDENTIF? OR - CORRESPOND? OR RELAT? OR MATCH?) (3N) S6
S14	3502	PARALLEL AND DOUBLE AND (S6 OR LANE??)
S15	332926	(IDENTIF? OR DETERMIN? OR DETECT? OR TRACK? OR LOCAT?) AND (VEHICLE?? OR CARS OR CAR OR AUTOMOBILE?? OR TRUCK?? OR HEADLIGHT? OR HEAD()LIGHT?? OR (TAIL OR REAR) ()LIGHT?? OR TAILLIGHT???)
S16	19	AU=(PIRIM, P? OR BINFORD, T? OR PIRIM P? OR BINFORD T?)
S17	17	(TIME OR DURATION) AND S2
S18	190350	IC=G06K?
S19	0	S2 AND (S4 OR S5 OR S10)
S20	93	S3 AND (S4 OR S5 OR S10)
S21	0	S20 AND S1
S22	7	S20 AND S15
S23	4	S22 NOT PY=>2000
S24	0	S3 AND S9 AND S10
S25	55	S3 AND S9
S26	3	S25 AND S11 AND S12
S27	3	S26 NOT S22
S28	3	S27 NOT PY=>2000
S29	355	(S13 OR S15) AND S1
S30	2	S29 AND S3
S31	2	S30 NOT (S26 OR S22)
S32	0	S14 AND S10
S33	287	S14 AND S9
S34	0	S33 AND S3
S35	0	S33 AND (S10 OR S5 OR S4)
S36	0	S33 AND S18
S37	10	S16 AND (S10 OR S4 OR S5)
S38	1	S37 NOT PY=>2000
S39	0	S17 AND (S10 OR S4 OR S5)
S40	132	S7 AND S3
S41	2	S40 AND S9
S42	2	S41 NOT (S30 OR S26 OR S22)
S43	2	S42 NOT PY=>2000
S44	21	S20 AND S6

S45 8 S44 AND (PARALLEL OR DOUBLE OR TWO)
S46 13 S44 NOT S45
S47 7 S45 NOT (S41 OR S30 OR S26 OR S22)
S48 11 S46 NOT (S41 OR S30 OR S26 OR S22)